

WHAT IS CLAIMED IS:

1. A device for collecting and releasing a sample liquid, the device comprising:

a sample collector with a porous and dimensionally stable sampling tip for taking up the sample liquid in the sampling tip; and

5 a pressure means for generating one of an overpressure and a vacuum in the pores of the sampling tip to release the sample liquid from the sampling tip.

2. A device in accordance with claim 1, wherein the pressure means is displaceable in relation to the sample collector, the overpressure in the pores of the sampling tip being generated by the pushing together of the pressure means and of the sample collector.

10 3. A device in accordance with claim 2, wherein said pressure means is provided to bring about the penetration of a reagent liquid from a reagent container into the pores during the pushing together of the pressure means and of the sample collector.

4. A device in accordance with claim 1, wherein the sampling tip has an indicator zone, which indicates the uptake of the sample liquid by means of a moisture indicator.

15 5. A device in accordance with claim 4, wherein the moisture indicator is an indicator dye, which shows a change in color in the presence of moisture.

6. A device in accordance with claim 4, wherein the moisture indicator is a material that

expands in the presence of moisture.

7. A system with a device for collecting and releasing a sample liquid, the system comprising:

5 a device for collecting and releasing a sample liquid with a porous and dimensionally stable sampling tip for taking up the sample liquid in the sampling tip and a pressure means for generating one of an overpressure and a vacuum in the pores of the sampling tip to release the sample liquid from the sampling tip;

10 a filter mixer with a porous and incompressible filter reactor, said sampling tip and said filter reactor being complementary in shape to form a positive-locking connection of an approximately constant thickness, wherein the mean pore size of the sampling tip and the mean pore size of the filter reactor are between 0.2 μm and 200 μm , and the mean pore size of the sampling tip is greater than that of the filter reactor.

8. A system in accordance with claim 7, wherein the mean pore size of the sampling tip is between 15 μm and 45 μm and the mean pore size of the filter reactor is between 7 μm and 12 μm .

9. A system with a device for collecting and releasing a sample liquid, the system comprising:

a device for collecting and releasing a sample liquid with a porous and dimensionally stable sampling tip for taking up the sample liquid in the sample tip and a pressure means for

generating one of an overpressure and a vacuum in the pores of the sampling tip to release the sample liquid from the sampling tip; and

a beaker-shaped reagent container with an impermeable inner surface, wherein the sampling tip and the beaker-shaped reagent enclose a volume.

5 10. A process for collecting and releasing a sample liquid, the process comprising the steps of:

taking the sample liquid up by a porous and dimensionally stable sampling tip; and

generating an overpressure or a vacuum in the pores of the sampling tip and releasing the sample liquid through the sampling tip.

10 11. A process in accordance with claim 10, wherein the sample liquid is released by the step of generating an overpressure or a vacuum toward the inside into a cavity of the sample collector.

12. A process in accordance with claim 10, wherein the sample liquid is released by the step of generating an overpressure or a vacuum toward the outside into a filter reactor.

15 13. A process in accordance with claim 10; further comprising the step of:
feeding the sample liquid into an analytical and evaluating unit.